

NG11409107Q

Attachment B

FOREST HARVEST OPERATION
Erosion and Sediment Control Plan Application

For Official Use: _____

FH# _____

Approved: _____
MDE

Expires: _____

A. LANDOWNER INFORMATION

1. Name: NASA – Goddard Space Flight Center, Attn: Mark Daly code 224.1
4. Address: 8800 Greenbelt Rd
5. Cit: Greenbelt_ 6. State MD_ 7. Zip: 20771 8. Phone : 301-286-4979

B. OPERATOR INFORMATION

1. Last Name ibd 2. First Name _____ 3. MI _____
4. Address _____
5. City _____ 6. State _____ 7. Zip _____ 8. Phone () _____
9. Training Certificate No.(Green Card) _____ 10. F.P.O. Lic. No. _____

C. FORESTER INFORMATION (if appropriate)

1. Last Name Markovich 2. First Name John 3. MI P
4. Lic. Forester No. 153 5. Phone (301) 645-4977

D. SITE INFORMATION

1. County Prince George's 2. Total Acres Harvested 5.77 3. Pine Acres Harvested 1.64
4. [Tax Acct. 1699586 Dist. 14 Map 20 Grid E-3 Parcel 2] or [ADC Map Page 9 Coord. A-4]
5. Location East side of Springfield Road approximately 0.6 miles north of Beaver Dam Road
6. Harvest Method: Clearcut 7. Regeneration Method: Natural Regeneration
8. Proposed Beginning Date: _____ 9. Proposed Completion Date: _____

Secondary operations require approval under a separate Erosion and Sediment Control Plan

E. HARVEST PROFILE			
Activity	Requirement	Encl	DNR
1. <input checked="" type="checkbox"/> Standard Plan	Submittal Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. <input type="checkbox"/> Road/Trail > 15% slope	Custom Sediment Control Plan	<input type="checkbox"/>	<input type="checkbox"/>
3. <input type="checkbox"/> Streamside Management Zone (SMZ)	Buffer Management Plan	<input type="checkbox"/>	<input type="checkbox"/>
4. <input type="checkbox"/> Nontidal Wetlands	Nontidal Wetland BMP Checklist	<input type="checkbox"/>	<input type="checkbox"/>
5. <input type="checkbox"/> Seedtree Law	DNR 362	<input type="checkbox"/>	<input type="checkbox"/>
6. <input type="checkbox"/> Stream Crossings	Waterway Permit	<input type="checkbox"/>	<input type="checkbox"/>
7. <input type="checkbox"/> Chesapeake Bay Critical Areas	Timber Harvest Plan	<input type="checkbox"/>	<input type="checkbox"/>
8. <input type="checkbox"/> Is this under the prescription of a Forest Management Plan?		<input type="checkbox"/>	<input type="checkbox"/>

F. FOREST CONSERVATION ACT

I hereby declare that no regulated activity shall occur on the above referenced harvest area of the property within five (5) years of the effective date of this Declaration of Intent or the conditions upon which this declaration was granted are changed. I understand that any regulated activity, as defined in the Forest Conservation Act, that is not the subject of this Declaration of Intent will require additional approval.

Braulio R. Ran 9/1/11
 Landowner Date

G. SEDIMENT CONTROL

1) The below signed agree(s) to the terms of the Standard Plan for Forest Harvest Operations and other attached required plans and to grant official state or county representatives and the Maryland Forest Service the right of entry to the site to monitor compliance.
 2) Each of the below signed is aware of the landowner's responsibility in preventing accelerated erosion and sedimentation during and subsequent to forest harvest operations as mandated by the rules and regulations adopted by the State of Maryland and the local ordinances.
 3) The below signed agree(s) to require that all operators conducting forest harvest operations on the above named property shall adhere to the requirements of the standard plan and any amendments to the plan.
 4) The below signed agree(s) to notify the local office of the Maryland Forest Service within 48 hours before beginning the harvest and 48 hours before completing the harvest.
 5) This plan shall expire after two (2) years from the approval date.

Marty Daly 9/2/11 Green Card # 02104
 Landowner Date

Operator _____ Date _____

IMPORTANT: You must attach a copy of the appropriate topographic or ADC map with the boundaries, entrances, stream crossings, and proposed landings of this forest harvest operation clearly marked.

**STANDARD EROSION AND SEDIMENT CONTROL PLAN
FOR
FOREST HARVEST OPERATIONS
IN MARYLAND
DOES NOT INCLUDE GARRETT, ALLEGANY AND WASHINGTON COUNTIES**

I. General Requirements

An Erosion and Sediment Control Plan is required for all harvests exceeding 5,000 sq. ft. of disturbed area, or which cross any perennial or intermittent watercourse with a drainage area exceeding 400 acres (100 acres for trout waters).

This Standard Erosion and Sediment Control Plan may be substituted for a custom plan for forest harvest operations when all of the following conditions are met:

1. Road cuts or fills are less than 3 feet.
2. Grades for roads and trails are less than 15 percent.
3. Landings are located on slopes less than 10 percent.

If the above conditions or any other criteria of this plan cannot be met, a plan modification listing controls necessary to prevent erosion and ensure site stabilization will have to be prepared by a registered professional forester and submitted along with this plan to the Prince George's Soil Conservation District for approval.

II. Conditions

- A. Unless one operator assumes full responsibility for implementing this plan, all forest harvest operators working at a site must obtain an erosion and sediment control plan. An operator is defined as any individual or company which has contracted or subcontracted a portion of the harvest operation. This also applies to those operators conducting firewood cutting or separate forest harvest operations in conjunction with or subsequent to the initial harvest. Each operator must implement and maintain the required practices.
- B. The applicant shall notify the Maryland Forest Service
(inspection agency)
410-360-8421 at least 48 hours prior to commencing forest harvest
(telephone number)
operations. This inspection agency must also be notified at least 48 hours prior to the completion of work.
- C. A copy of this plan and any approved plan modifications shall be available on site during harvest operations.
- D. Each site will be periodically inspected by local government and/or State inspectors for compliance with this plan. State and local inspectors may require Prince George's Soil Conservation District approved plan modifications to this standard plan as conditions dictate, to prevent movement of sediment from this site.

- E. Failure to properly implement or maintain the practices required by this plan, or to comply with written requirements for corrective action may result in the operation being stopped (issuance of a stop work order) until the deficiencies have been corrected. Failure to take required corrective action may also result in legal action.
- F. All erosion and sediment controls must be implemented in accordance with specifications contained in the document entitled "Soil Erosion and Sediment Control Guidelines for Forest Harvest Operations in Maryland" (hereafter referred to as Guidelines for Forest Harvest Operations) available from the Maryland Forest, Park and Wildlife Service.

III. Standard Plan Requirements

A. Site Maps

Site maps or sketches shall be prepared for all harvests and submitted with plan application to the Prince George's Soil Conservation District. The map shall identify the site location and provide directions and distances from the nearest major road intersection. All access points, landings, haul roads, waterbodies, uncut buffer areas, and stream crossings must be identified on the map or sketch. The requirement for mapping haul road locations may be waived by PGSCD for harvests less than 100 acres. A more detailed map of buffer areas is required when buffer management plans are submitted. The harvest area should also be delineated on a xerox copy of the U.S.G.S. topographic map.

B. Site Access

1. Access points to the site shall be stabilized with wood chips, corduroy logs, a stone construction entrance or other methods approved in the Guidelines for Forest Harvest Operations. Any soil or debris which is tracked onto adjoining off-site paved roads shall be removed and deposited in a controlled area by the end of each working day.
2. A grading or entrance permit may be required for a new entrance onto a county or state road. Details may be obtained from the local permitting agency.
3. Existing public road drainage shall not be blocked or damaged by access construction. Pipe culverts shall be installed to maintain existing drainage.

C. Waterway Protection

1. Uncut buffer zones shall be marked and maintained on all sides of perennial or intermittent streams, rivers, lakes, ponds, bogs or marshes. These features are identified on United States Geological Survey 7.5 Minute Series (Topographic) quadrangle maps. The minimum buffer zone width shall be 50 feet. This applies to land with no slope. Where sloping land is encountered the following table shall be adhered to:

<u>Average Percent Slope To Water Course</u>	<u>Width of Buffer (Feet) on each side of Water Course</u>
1-10	75
11-20	100
21-30	150
31-40	200
41+	250

2. Roads, trails, and harvesting equipment shall not be allowed in any buffer area except to provide access to authorized stream crossings.
3. The restriction on harvesting within buffer zones may be waived providing that a buffer management plan is submitted to, and approved by, the Prince George's Soil Conservation District. The management plan shall be designed by a registered professional forester and include the harvest method, the square footage of basal area to be removed and retained, provisions for removing and restocking the cut trees, and other criteria established below and in the Guidelines for Forest Harvest Operations. All trees to be removed from the buffer shall be marked at the base of the stump (so the mark remains after harvesting) by the professional forester in advance of the harvest operation. The buffer management plan shall become a modification to this standard plan and be available on site during harvest operations.

Harvesting within buffer areas must adhere to the following criteria. Basal area may not be reduced below 60 square feet of evenly distributed trees which are 6 inches or greater in diameter, measured at breast height. Any slash which inadvertently falls into adjacent waterbodies must be pulled back to prevent waterway blockage. Roads, trails, and equipment will not be allowed within 50 feet of any waterbody except at approved stream crossings. Timber cut within this 50 foot area must be removed by cable.

D. Haul Roads and Skid Trails

1. Grading of existing roads and/or trails will be limited to that necessary to make them operable, provided that the requirements of Sec. D(2) are complied with.
2. Haul roads and skid trails shall be laid out along natural land contours to avoid excessive cuts, fills, and grades. No road cut or fill shall exceed 3 feet without prior the Prince George's Soil Conservation District approval of the modification. All roads requiring mapping must be flagged in advance of the harvest.

3. Crossing of perennial or intermittent streams should be avoided. Where it becomes necessary to cross either a perennial or intermittent stream, a bridge or culvert crossing shall be temporarily installed. A Maryland Department of the Environment temporary stream crossing permit shall be obtained prior to crossing streams, or trout waters draining 100 acres or more.
4. Grades for roads and trails shall not normally exceed 15 percent. If it is not feasible to limit grades to 15 percent, a plan modification which identifies the erosion controls required to prevent excessive erosion, must be approved by the Prince George's Soil Conservation District prior to road or trail construction.
5. No haul roads or skid trails other than those providing access to waterway crossings shall be constructed within buffer areas. Drainage from approaches to waterway crossings shall be diverted to undisturbed areas.
6. Drainage structures shall be provided at the time of construction of haul roads and skid trails according to specifications contained in the Guidelines for Forest Harvest Operations.

E. Landings

Landings shall be located on reasonably level (between 3 and 10 percent slope) well drained ground. If harvest sites do not have any area with a slope of at least 3 percent, landings shall be located on the maximum slope of the site. Landings located on slopes exceeding 10 percent shall require prior approval of the Prince George's Soil Conservation District and may need specific erosion and sediment controls.

F. Stabilization

1. All unstable material (exposed soil) resulting from the construction of roads, trails and landings, with slopes greater than 30 percent and all perimeter slopes which are not adjacent to a buffer shall be stabilized within 7 days of disturbance with seed and mulch.
2. Upon completion of the harvest, all roads, trails and landings located on slopes greater than 10 percent shall be graded or backdragged, seeded, and mulched according to specifications. The surface of roads, landings, and major skid trails less than 10 percent should be backdragged and left in a condition that permits successful natural regeneration of trees, shrubs, or other annual and perennial plants. Under certain circumstances stabilization of these roads and landings with seed and/or mulch may be required.

G. Maintenance

1. All practices installed shall be maintained at all times to function as intended.
2. Any practice that fails to function properly will be repaired or corrected immediately.

**SPECIAL PERMIT REQUIREMENTS & RESTORATION
OF EXISTING ADJACENT ROADWAYS**

The Department of Public Works and Transportation hereby grants permission, which will enable the property owner, or the United State of America (Agent), to obtain "Special Permit" Number _____ for transporting approximately _____ loads of logs per day with commercial/industrial vehicles over a one (1) month period. Approximately 5.77 acres of timber will be harvested on the property owned by United States of America (Parcel/Lot 2 Block _____ Liber 9857 Folio 449) Located at east side of Springfield Road @ 0.6 miles north of Beaver Dam Rd.

(address)

Permission, however, to use Springfield Road which is a rural/
(Name of Roadway)

urban residential roadway, as a temporary commercial/industrial hauling route, is subject to the operator/applicant following the conditions and adhering to the responsibilities described in the Prince George's County Code, Subtitle 23, Divisions 1 and 2, Sections 23-103 (g), 23-105 (a) (b) (c), 23-107 (b), 23-109(a) (b), and 23-116(a) (d) (e) (1) (A) (ii):

1. Performance Bond Required

Because of possible damage to the existing County-maintained roadway, a Performance Bond, or some other form of security in the amount of \$5,000, will be required. The Performance Bond will assure restoration of any damage to the existing residential roadway surface, shoulders, side ditches, adjacent shrubbery/trees located within the public right-of-way,

underground/above ground utilities, culverts, bridges, underground storm drainage system, curb and gutter, etc., caused by the temporary commercial industrial hauling operation.

The Performance Bond shall be held by the DPW&T throughout the duration of the permit and until documentation has been produced by the County which states that said Performance Bond may be released. The security posted to ensure performance shall be certified as discharged upon acceptance of the termination of the use of the specified hauling route and, if applicable, acceptance of the restoration of damage that may have resulted within the public rights-of-way during the performance of the DPW&T issued "Special Permit". However, discharge of the security posted to ensure performance shall not operate as a discharge of any other bonds.

In the event that the bond amount collected is not sufficient to cover the damage, if any should result, the operator/permittee, or their agent, should be aware that the County is entitled to bill for any additional costs required for corrective action. The Performance Bond and associated permit fees are to be posted at the DPW&T's Permits counter, located on the 6th floor, 9400 Peppercorn Place, Landover, Md. 20785 (301) 883-5972.

2. Permit Fees Required

A permit fee in the amount of \$50 is required. The permit fee is non-refundable and shall be charged to offset the administrative costs incurred.

3. Use and Restoration of Existing Adjacent Roadways

All adjacent road surfaces should be kept clean of dirt and debris, at all times, attributable to the use of the haul road, as directed by the DPW&T.

In order to protect the traveling public at all times, especially during any type of commercial/industrial hauling, flagmen, temporary barricades equipped with flashing lights, traffic cones, and temporary portable signs, shall be required at any time to temporarily regulate traffic, if deemed necessary by the DPW&T Construction Regulation Inspector.

It shall be the responsibility of the operator/permittee to notify the DPW&T Construction Regulation Inspector, assigned to the area, 48 hours in advance of commencing with the hauling operations. The Inspector may be reached at (301) 883-5730.

The DPW&T Construction Regulation Inspector will immediately review the existing street conditions to monitor visible problems, and will continue to monitor the hauling route at least twice a week throughout the duration of the permit.

At the termination of the timber harvest and/or hauling operation, it shall be the responsibility of the operator/permittee to repair any damage determined to be a result of the performance of this permit. The public right-of-way, shall be returned to its original condition or better, as directed by the DPW&T.

4. Other Requirements

The DPW&T permit is issued for the purpose of enabling a legal haul activity within the County-maintained (public) right-of-way. The permit does not authorize the use of private driveways, private right-of-way, State-maintained right-of-way, etc., nor does it authorize public road work other than construction of a temporary stabilized construction entrance (SCE).

Every precaution is to be taken to protect adjacent properties from damage through the performance of this permit. Prince George's County assumes no responsibility for any suits or actions resulting from any work executed under this permit. Failure to comply with the conditions and requirements will result in revocation of the permit. Failure to comply will also be considered a violation of the Road Ordinance and the operator/permittee will be subject to penalty.

NOTE: Where applicable, the application submitted for the permit shall be accompanied by a letter, from adjacent property owners, which provides the written consent to temporarily use/cross private property/private road with commercial/industrial vehicles.

I, the undersigned, do hereby certify that I have read the above requirements/general specifications, and I do understand that I am obligated to comply and obtain a permit.

WITNESS

PERMITTEE

SEEDING SEASON FOR MARYLAND

Suggested seeding mixtures, rates and dates

MIX NO.	SEED MIXTURE	LBS/ ACRE	LBS/ 1000 SQ FT	COASTAL PLAIN	PIEDMONT	MOUNTAINS
1	Kentucky	31				
	Tall Fescue	35	0.8			
	Creeping Red Fescue	35	0.8			
	Red Clover	<u>2</u>	<u>0.1</u>	2/1-6/1		
	Total Mix	72	1.7	8/15-10/31	3/1-10/15	3/1-10/1
	<hr/>					
2	Kentucky	31				
	Tall Fescue	35	0.8			
	Creeping Red Fescue	35	0.8			
	Red Clover	2	0.1			
	Weeping Lovegrass	<u>2</u>	<u>0.1</u>			
	Total Mix	74	1.8	6/1-8/15		
3	Kentucky	31		2/1-6/1		
	Tall Fescue *	70	1.6	8/15-10-31	3/1-10/15	3/1-10/1
4	Kentucky	31				
	Tall Fescue	40	0.9			
	Reed					
	Canarygrass	<u>20</u>	<u>0.5</u>			
	Total Mix	60	1.4	2/1-10/31	3/1-10/15	3/1-10/1

*K-31 Often contains a fungus which is toxic to certain wildlife, such as rabbits. For wildlife enhancement an endophyte free tall fescue should be used instead of K-31. Assistance in selecting other plant species which will be beneficial to wildlife may be obtained from the Maryland Department of Natural Resources – Wildlife Division.

Mix No. 1 is to be used on most logging roads and trails where some shade is present.

Mix No. 2 is to be used during hot, dry periods of summer.

Mix No. 3 is to be used in sunny areas without shade. During hot dry periods of summer, add 2 lbs/acre of Weeping Lovegrass.

Mix No. 4 is to be used in areas with wet, poorly drained soils.